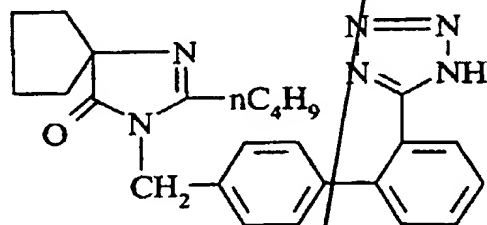


## CLAIMS

1. Crystalline compound of formula:



(I)

having a crystal habitus such that the ratio between the length and the width of the crystals is between 1:1 and 10:1.

AI 2. Crystalline compound according to Claim 5 1, in which the ratio between the length and the width of the crystals is between 1:1 and 5:1.

3. Novel crystalline form of irbesartan of form A, characterized in that the ratio between the length and the width of the crystals is between 1:1 and 10 5:1.

4. Process for preparing a compound according to any one of Claims 1 to 3, characterized in that a crystalline suspension of a compound of formula (I) is subjected to at least one sonication episode and 15 at least one temperature oscillation episode.

5. Process for preparing a compound according to any one of Claims 1 to 3, characterized in that a crystalline suspension of irbesartan of acicular habit form A is subjected to at least one sonication 20 episode and at least one temperature oscillation episode.

6. Process according to either of Claims 4 and 5, in which the temperature oscillation episode comprises a heating phase and a corresponding cooling 25 phase.

7. Process according to Claim 6, in which the heating phase precedes the cooling phase.

8. Process according to Claim 7, in which the sonication episode is followed by a temperature oscillation episode.

9. Process according to either of Claims 4 and 5, in which the sonication episode is preceded by a temperature oscillation episode.

A 1  
10. Process according to either of Claims 4 and 5, in which the sonication episode is carried out simultaneously with the temperature oscillation episode.

11. Process according to either of Claims 4 and 5, in which a sonication episode is carried out between 2 temperature oscillation episodes.

12. Process according to either of Claims 4 and 5, in which the sonication and/or temperature oscillation episodes are repeated independently.

13. Process according to either of Claims 4 and 5, in which the sonication is carried out in batches, semi-continuously or continuously.

20 14. Process according to Claim 7, in which the heating phase of the temperature oscillation episode is carried out at a temperature of between about 20°C and 100°C.

25 15. Process according to Claim 7, in which the heating phase of the temperature oscillation episode is carried out at a temperature such that about 15% to 25% of the crystals are dissolved in about 60

minutes.

16. Process according to Claim 7, in which the cooling phase of the temperature oscillation episode is carried out at a temperature of between  
5 about 100°C and -20°C.

17. Process according to Claim 7, in which the cooling phase of the temperature oscillation episode is carried out at a temperature of between  
about -5°C and 20°C.

18. Process according to Claim 7, in which the temperature selected for the cooling phase of the temperature oscillation episode is less than the temperature selected for the corresponding heating phase of the temperature oscillation episode.

19. Process according to Claim 7, in which the crystalline suspension is seeded with irbesartan crystals whose ratio between the length and the width is between 1:1 and 10:1.

20. Process for preparing a compound according to any one of Claims 1 to 3, characterized in that it contains the steps consisting in:

a) preparing a solution of irbesartan acicular habit form A in an alcohol, under concentration and temperature conditions which allow  
25 the total solubility of the irbesartan;

b) cooling the said solution to a temperature selected as a function of the concentration of the

solution, such that the solution is in the metastable zone;

c) seeding with irbesartan crystals of brick habit;

5 d) cooling the irbesartan solution to a temperature of between about 20°C and 5°C;

e) subjecting the crystalline suspension thus formed to a mechanical shearing using a shearing machine;

10 f) heating the crystalline suspension to a temperature of between about 40°C and 60°C to dissolve the fine particles;

g) cooling the crystalline suspension to a temperature of between about 20°C and 5°C;

15 h) filtering off the crystals of brick habit thus formed.

21. Process according to Claim 20, in which, in step a), the irbesartan is dissolved in isopropanol.

22. Process according to Claim 20, in which,  
20 in step b), a solution containing 50 g/litre to 70 g/litre of irbesartan in isopropanol is cooled to a temperature ranging between 60°C and 80°C.

23. Process according to Claim 20, in which, in step c), the solution is seeded with irbesartan  
25 crystals whose ratio between the length and the width is between 1:1 and 10:1.

24. Process according to Claim 23, in which

the seeded solution is maintained at a temperature of between 80°C and 22°C for a few minutes to about 2 hours, before being cooled.

25. Process according to Claim 21, in which,  
5 in steps b) and d), the rate of cooling is from about 5°C to 20°C per hour.

26. Process according to Claim 20, in which,  
in step e), the mechanical shearing is carried out by a machine having a spin speed of about from 10 000 rpm to  
10 15 000 rpm.

27. Process according to Claim 26, in which  
the mechanical shearing in step e) is carried out  
either by placing the shearing machine directly in the reactor or by passing the crystalline suspension into  
15 the shearing machine.

28. Pharmaceutical composition containing a compound according to any one of Claims 1 to 3 and pharmaceutically acceptable excipients.

29. Pharmaceutical composition according to  
20 Claim 28, containing a diuretic agent combined with a compound according to any one of Claims 1 to 3.

30. Pharmaceutical composition according to Claim 29, in which the diuretic agent is hydrochlorothiazide.

25  
A1  
A2